

FIBRIN BINDING DOMAIN POLYPEPTIDES
AND USES AND METHODS OF PRODUCING SAME

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ABSTRACT OF THE DISCLOSURE

10 This invention provides an imaging agent which comprises
a polypeptide labeled with an imageable marker, such
polypeptide having an amino acid sequence substantially
present in the fibrin binding domain of naturally-
occurring human fibronectin and being capable of binding
to fibrin. The invention further provides a method
15 wherein the imaging agent is used for imaging a fibrin-
containing substance, i.e., a thrombus or atherosclerotic
plaque. Further provided are plasmids for expression of
polypeptides having an amino acid sequence substantially
present in the fibrin binding domain of naturally-
20 occurring human fibronectin and being capable of binding
to fibrin, hosts containing these plasmids, methods of
producing the polypeptides, methods of treatment using
the polypeptides, and methods of recovering, refolding
and reoxidizing the polypeptides. The invention also
25 provides for purified polypeptides substantially free of
other substances of human origin which have an amino acid
sequence substantially present in the fibrin binding
domain of naturally-occurring human fibronectin and which
are capable of binding to fibrin.

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